

202

8.1 HW

13. 15, 17, 21-23, 27-29, 31, 32, 34, 37-40

$$13. (32-2)180 = 5400^\circ \quad 15. (19-2)180 = 3060^\circ \quad 17. (44-2)180 = 7204-360$$

$$21. 180-140=40$$

$$360 \div 40 = (9)$$

$$22. 180-170=10$$

$$360 \div 10 = (36)$$

$$23. 180-160=20$$

$$360 \div 20 = (18)$$

$$27. x+5x+2x+4x=360$$

$$12x=360$$

$$x=30$$

$$30^\circ, 60^\circ, 120^\circ, 150^\circ$$

$$28. x+x+10+x-5+x+5+x+20=540$$

$$5x+30=540$$

$$5x=510$$

$$x=102$$

$$102^\circ, 112^\circ, 97^\circ, 107^\circ, 122^\circ$$

$$29. 10x+20x=180$$

$$30x=180$$

$$x=6$$

$$60^\circ, 60^\circ, 120^\circ, 120^\circ$$

$$(10-2)180=1440$$

31.

$$x+30+x+35+x+40+x+60+x+70+x+80+$$

$$x+90+x+5+x+10+x+20=1440$$

$$10x+440=1440$$

$$10x=1000$$

$$x=100$$

$$32. (5-2)180=540$$

$$6x+4x+13+x+9+2x-8+4x-1=540$$

$$17x+13=540$$

$$=527$$

$$x=31$$

$$186^\circ, 137^\circ, 40^\circ$$

$$54^\circ, 123^\circ$$

$$105^\circ, 110^\circ, 120^\circ, 130^\circ, 135^\circ, 140^\circ, 160^\circ, 170^\circ, 180^\circ, 190^\circ$$

$$34. x+x+10+x+20+x+30=360$$

$$4x+60=360$$

$$x=75$$

$$75^\circ, 85^\circ, 95^\circ, 105^\circ$$

$$(9-2)180$$

$$37. \frac{1260}{9} = 140^\circ \text{ each int}$$

$$40^\circ \text{ each ext}$$

$$38. \frac{360}{8} = 45^\circ \text{ each ext}$$

$$180 - 45 = 135^\circ \text{ each int}$$

$$39. \frac{360}{11} = 32.7 \text{ each ext}$$

$$180 - 32.7 = 147.3 \text{ each int}$$

$$40. \frac{360}{7} = 51.4 \text{ each ext}$$

$$180 - 51.4 = 128.6 \text{ each int}$$